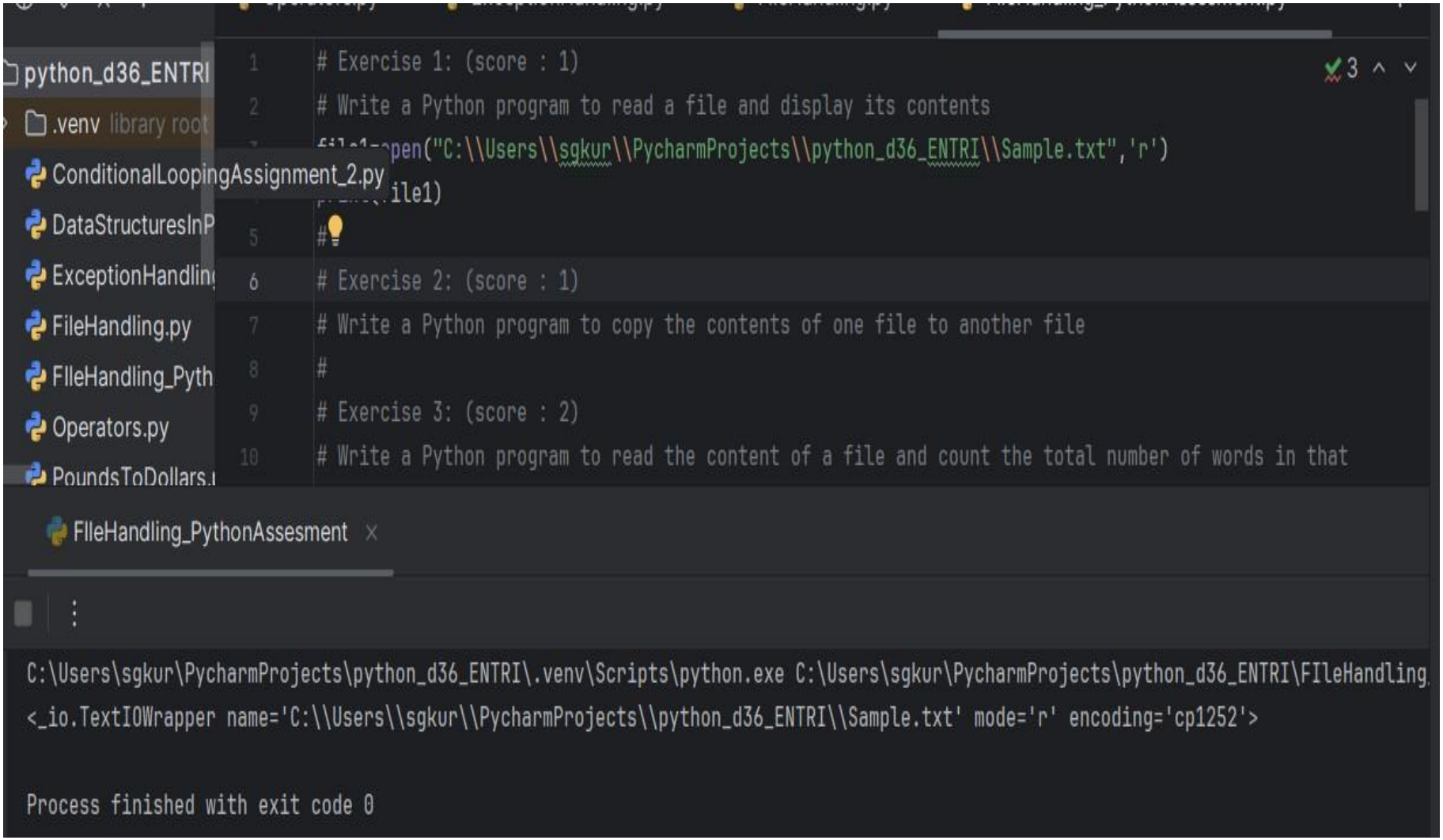
ASSIGNMENT ON FILE AND EXCEPTION HANDLING

By
Shino Mary Philipose

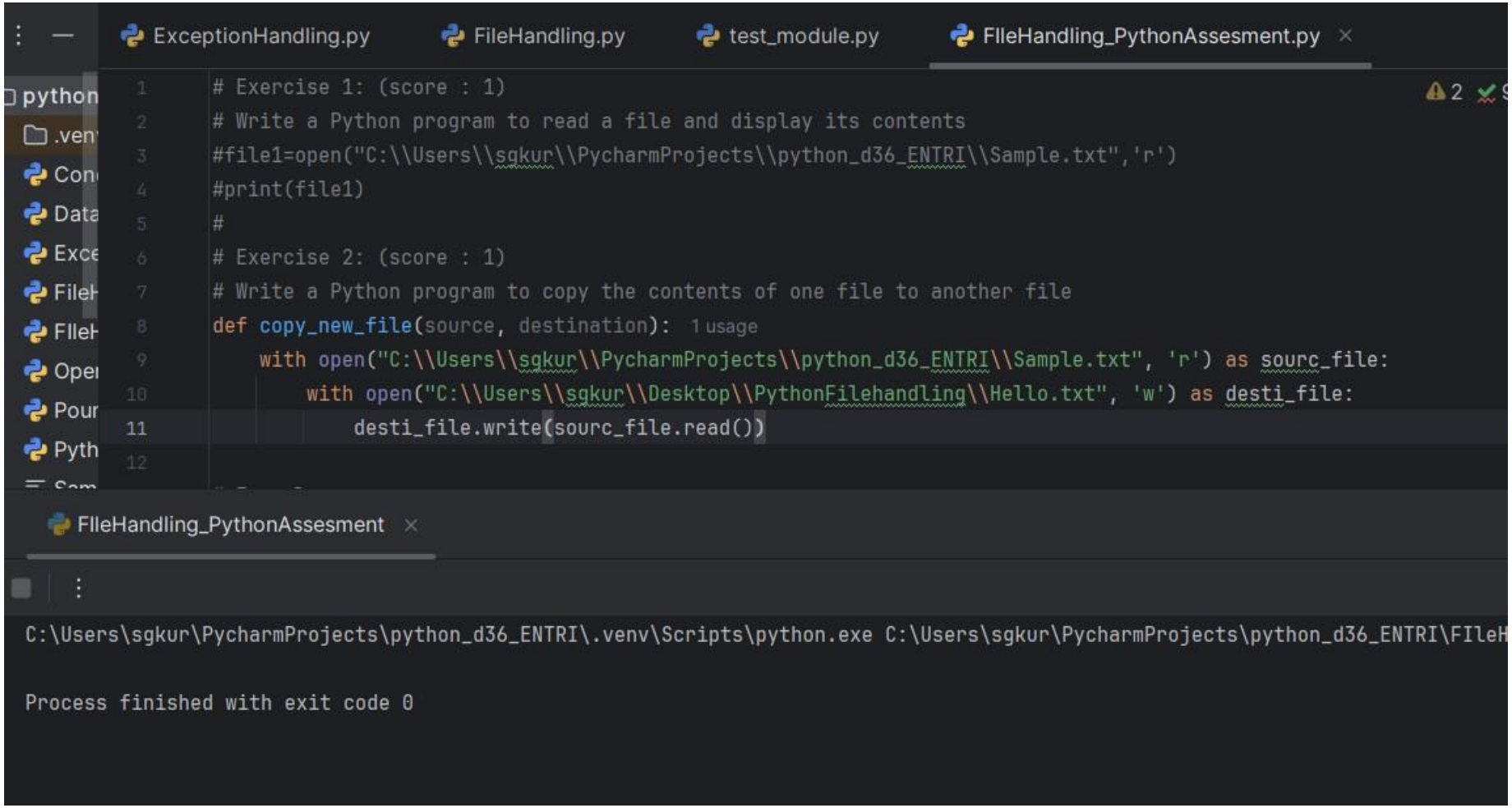
Q.1


python_d36_ENTRI
.venv library root
ConditionalLoopingAssignment_2.py
DataStructuresInP
ExceptionHandlin
FileHandling.py
FIleHandling_Pyth
Operators.py
PoundsToDollars.
# Exercise 1: (score : 1)
# Write a Python program to read a file and display its contents
pen("C:\\Users\\sgkur\\PycharmProjects\\python_d36_ENTRI\\Sample.txt",'r')
ile1)
#
Exercise 2: (score : 1)
Write a Python program to copy the contents of one file to another file
#
Exercise 3: (score : 2)
Write a Python program to read the content of a file and count the total number of words in that
FIleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\FIleHandling
<_io.TextIOWrapper name='C:\\Users\\sgkur\\PycharmProjects\\python_d36_ENTRI\\Sample.txt' mode='r' encoding='cp1252'>
Process finished with exit code 0

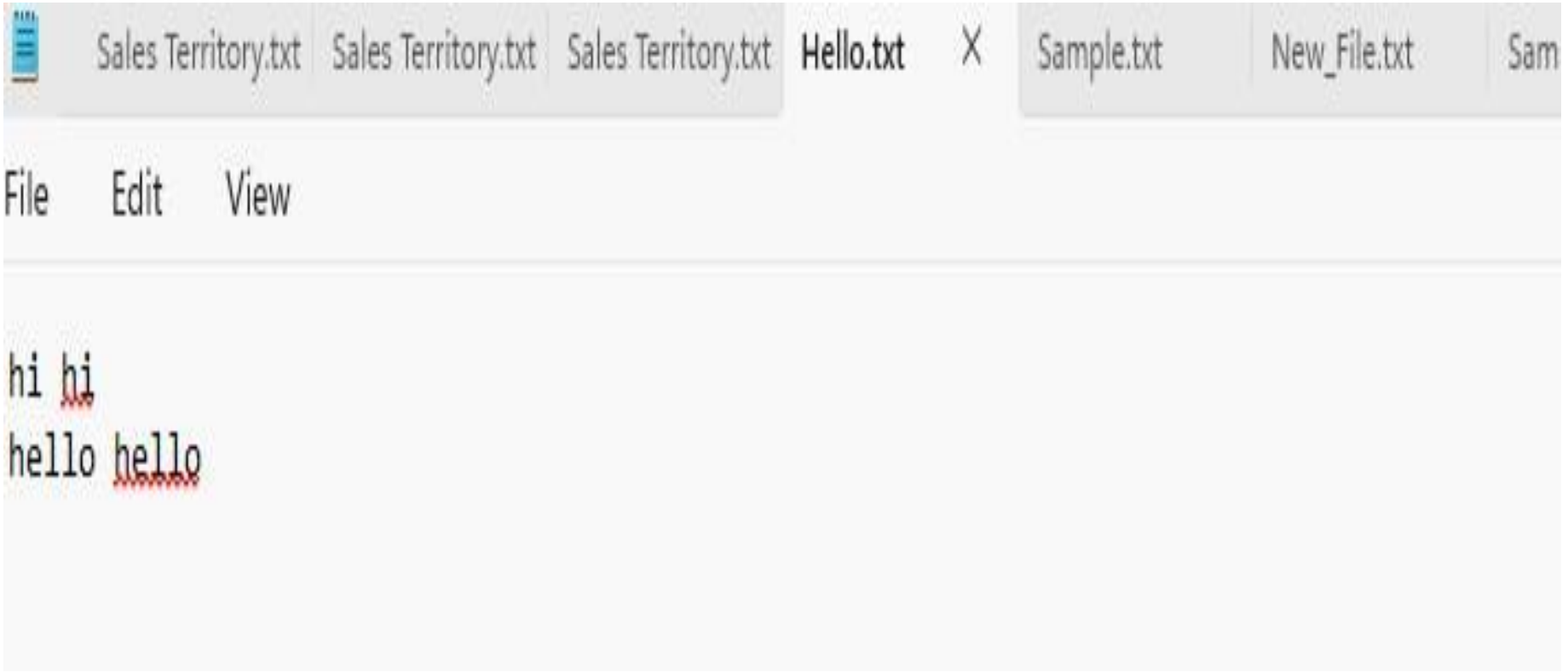
Q.1


Sales Territory.txt
Sales Territory.txt
Sales Territory.txt
Hello.txt
Sample.txt
New_File.txt
Sample.txt
File
Edit
View
Hi Hi
Hello Hello

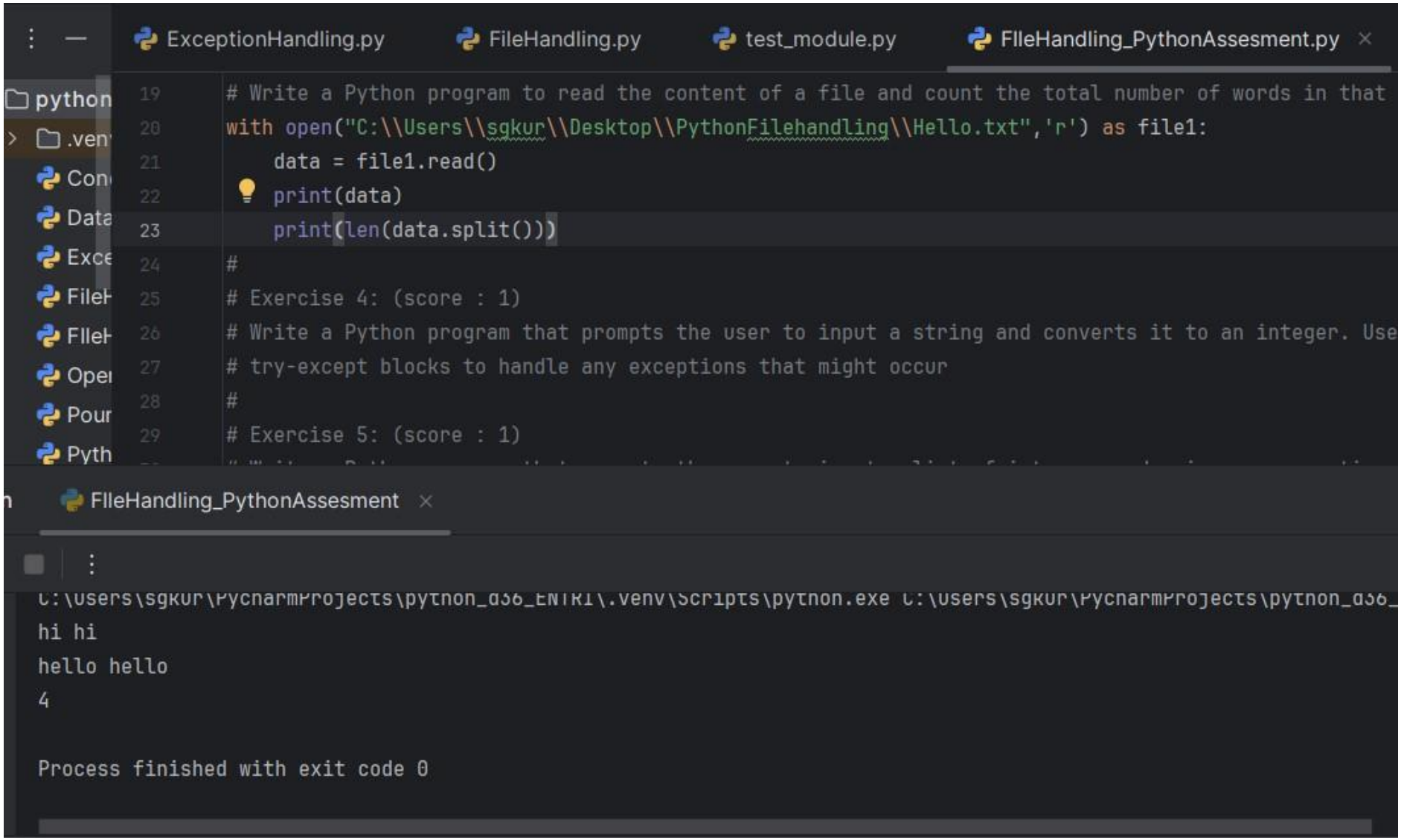
Q.2


ExceptionHandling.py
FileHandling.py
test_module.py
FIleHandling_PythonAssesment.py
Exercise 1: (score : 1)
Write a Python program to read a file and display its contents
#file1=open("C:\\Users\\sgkur\\PycharmProjects\\python_d36_ENTRI\\Sample.txt",'r')
#print(file1)
#
Exercise 2: (score : 1)
Write a Python program to copy the contents of one file to another file
def copy_new_file(source, destination): 1 usage
with open("C:\\Users\\sgkur\\PycharmProjects\\python_d36_ENTRI\\Sample.txt", 'r') as sourc_file:
with open("C:\\Users\\sgkur\\Desktop\\PythonFilehandling\\Hello.txt", 'w') as desti_file:
desti_file.write(sourc_file.read())
FIleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\FIleH
Process finished with exit code 0

Q.2


Sales Territory.txt
Sales Territory.txt
Sales Territory.txt
Hello.txt
X
Sample.txt
New_File.txt
Sam
File
Edit
View
hi hi
hello hello

Q.3


ExceptionHandling.py
FileHandling.py
test_module.py
FlleHandling_PythonAssesment.py
python
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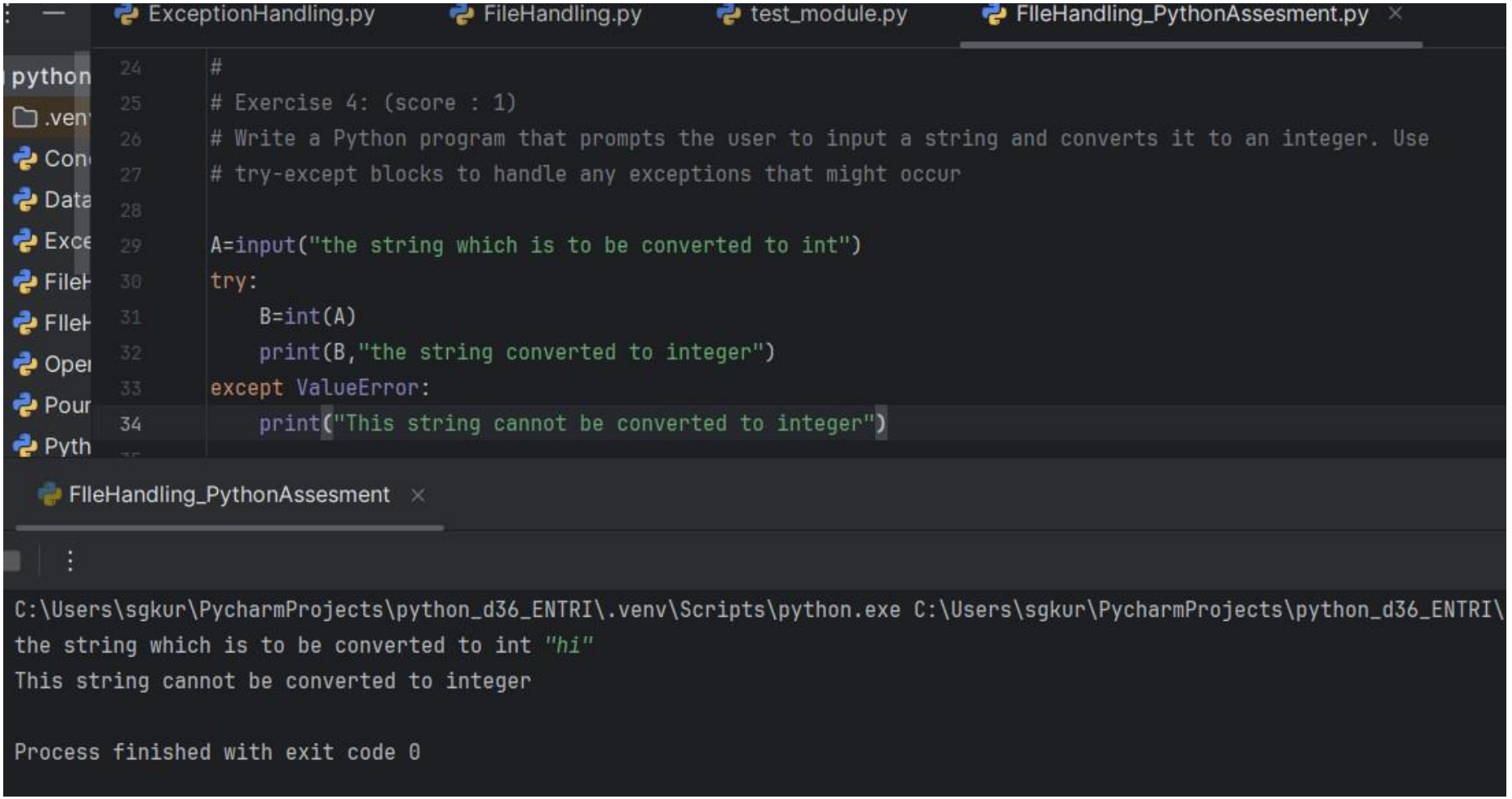
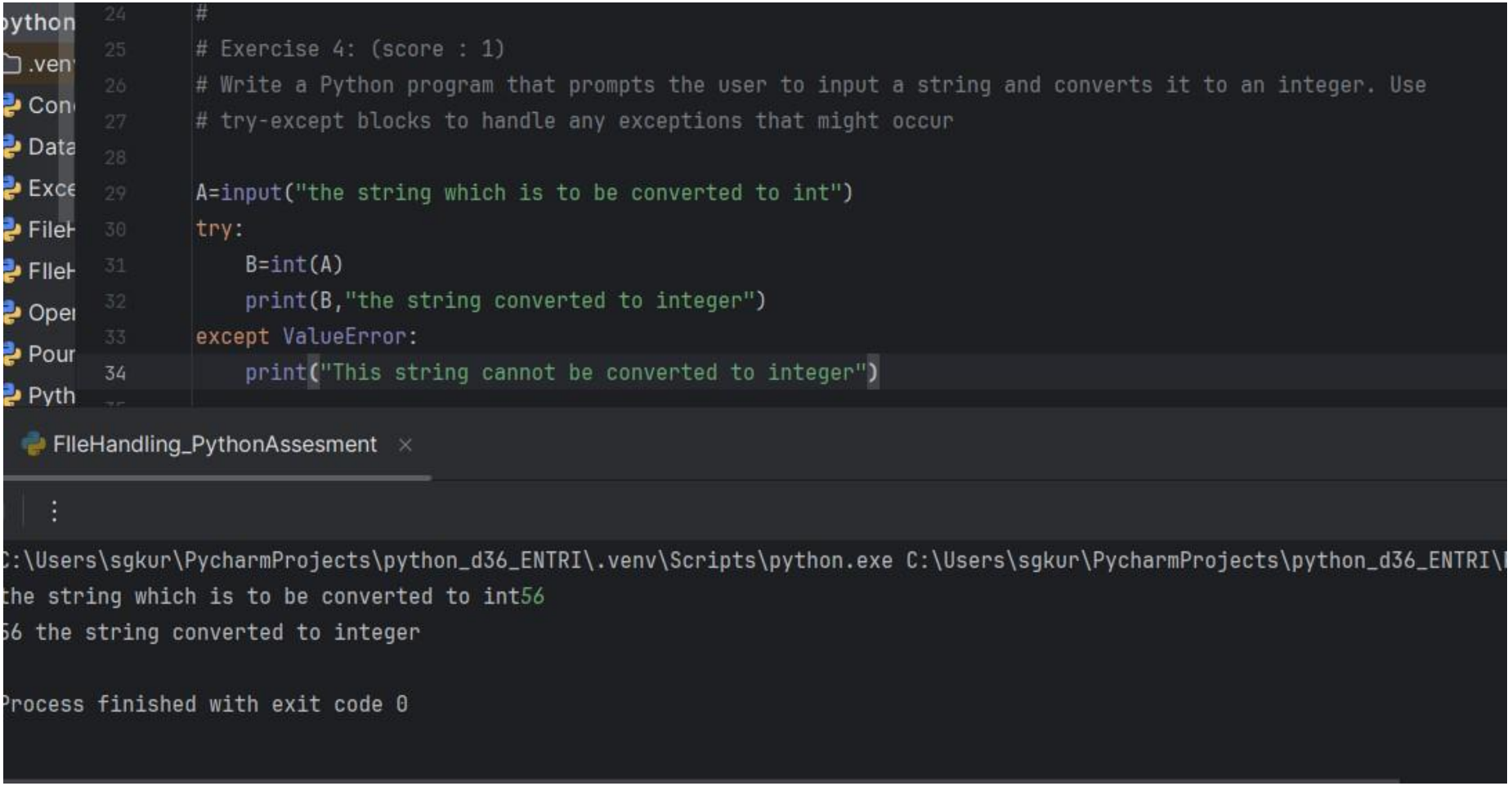
Pyth
Write a Python program to read the content of a file and count the total number of words in that
with open("C:\\Users\\sgkur\\Desktop\\PythonFilehandling\\Hello.txt",'r') as file1:
data = file1.read()
print(data)
print(len(data.split()))
#
Exercise 4: (score : 1)
Write a Python program that prompts the user to input a string and converts it to an integer. Use
try-except blocks to handle any exceptions that might occur
#
Exercise 5: (score : 1)
FlleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_EN1R1\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36_
hi hi
hello hello
4
Process finished with exit code 0

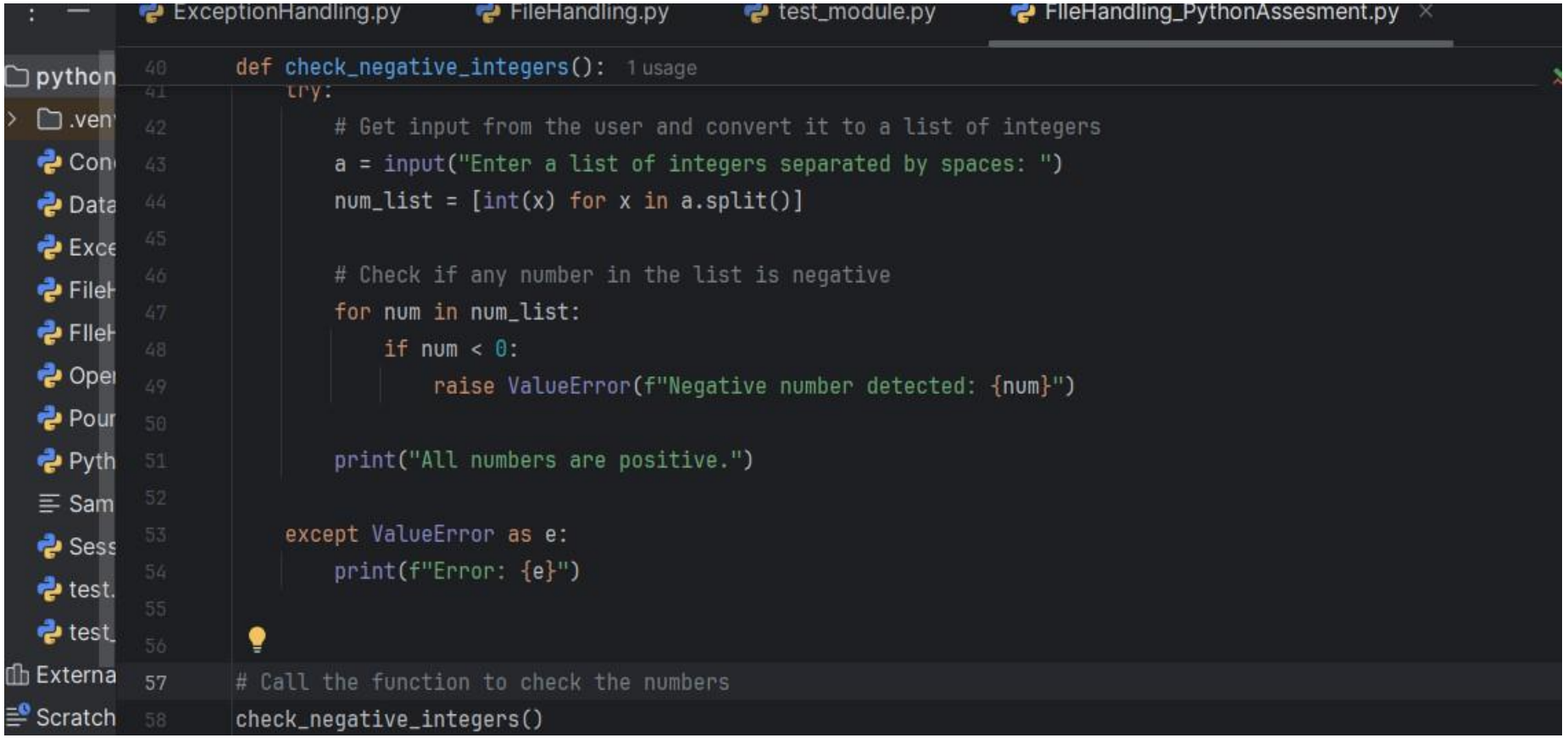
Q.4


ExceptionHandling.py
FileHandling.py
test_module.py
FIleHandling_PythonAssesment.py
24 #
25 # Exercise 4: (score : 1)
26 # Write a Python program that prompts the user to input a string and converts it to an integer. Use
27 # try-except blocks to handle any exceptions that might occur
28
29 A=input("the string which is to be converted to int")
30 try:
31 B=int(A)
32 print(B,"the string converted to integer")
33 except ValueError:
34 print("This string cannot be converted to integer")
FIleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\
the string which is to be converted to int "hi"
This string cannot be converted to integer
Process finished with exit code 0

Q.4


#
# Exercise 4: (score : 1)
# Write a Python program that prompts the user to input a string and converts it to an integer. Use
# try-except blocks to handle any exceptions that might occur
A=input("the string which is to be converted to int")
try:
B=int(A)
print(B,"the string converted to integer")
except ValueError:
print("This string cannot be converted to integer")
FIleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\
the string which is to be converted to int56
56 the string converted to integer
Process finished with exit code 0

Q.5


ExceptionHandling.py
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Scratch
def check_negative_integers(): 1 usage
try:
# Get input from the user and convert it to a list of integers
a = input("Enter a list of integers separated by spaces: ")
num_list = [int(x) for x in a.split()]
# Check if any number in the list is negative
for num in num_list:
if num < 0:
raise ValueError(f"Negative number detected: {num}")
print("All numbers are positive.")
except ValueError as e:
print(f"Error: {e}")
# Call the function to check the numbers
check_negative_integers()

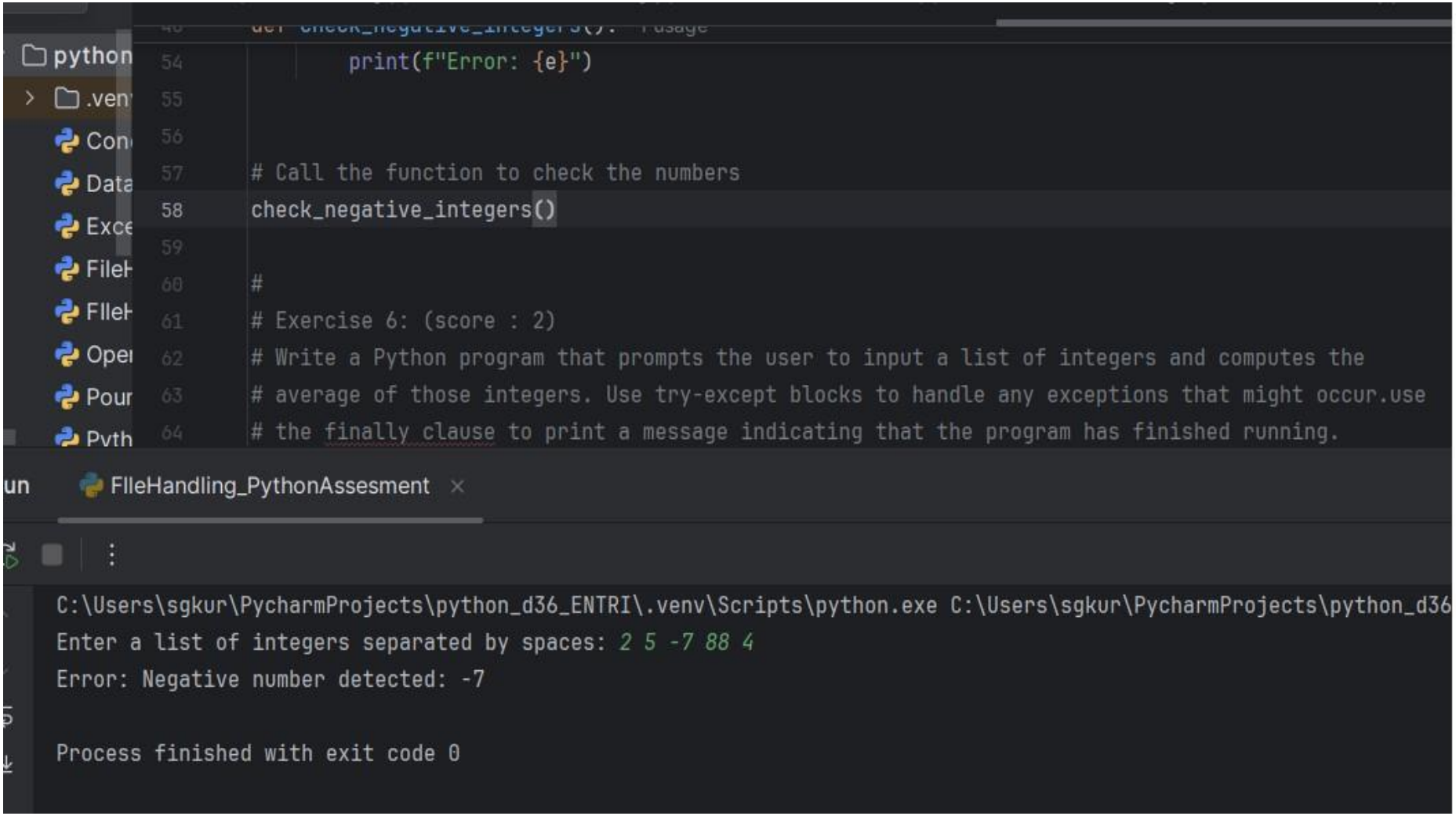
Q.5

```
40      def check_negative_integers():  1 usage
41          try:
42              # Get input from the user and convert it to a list of integers
43              a = input("Enter a list of integers separated by spaces: ")
44              num_list = [int(x) for x in a.split()]
45
46              # Check if any number in the list is negative
47              for num in num_list:
48                  if num < 0:
49                      raise ValueError(f"Negative number detected: {num}")
50
51              print("All numbers are positive.")
```

```
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\pyt
Enter a list of integers separated by spaces: 3 6 9 10
All numbers are positive.

Process finished with exit code 0
```

Q.5


python
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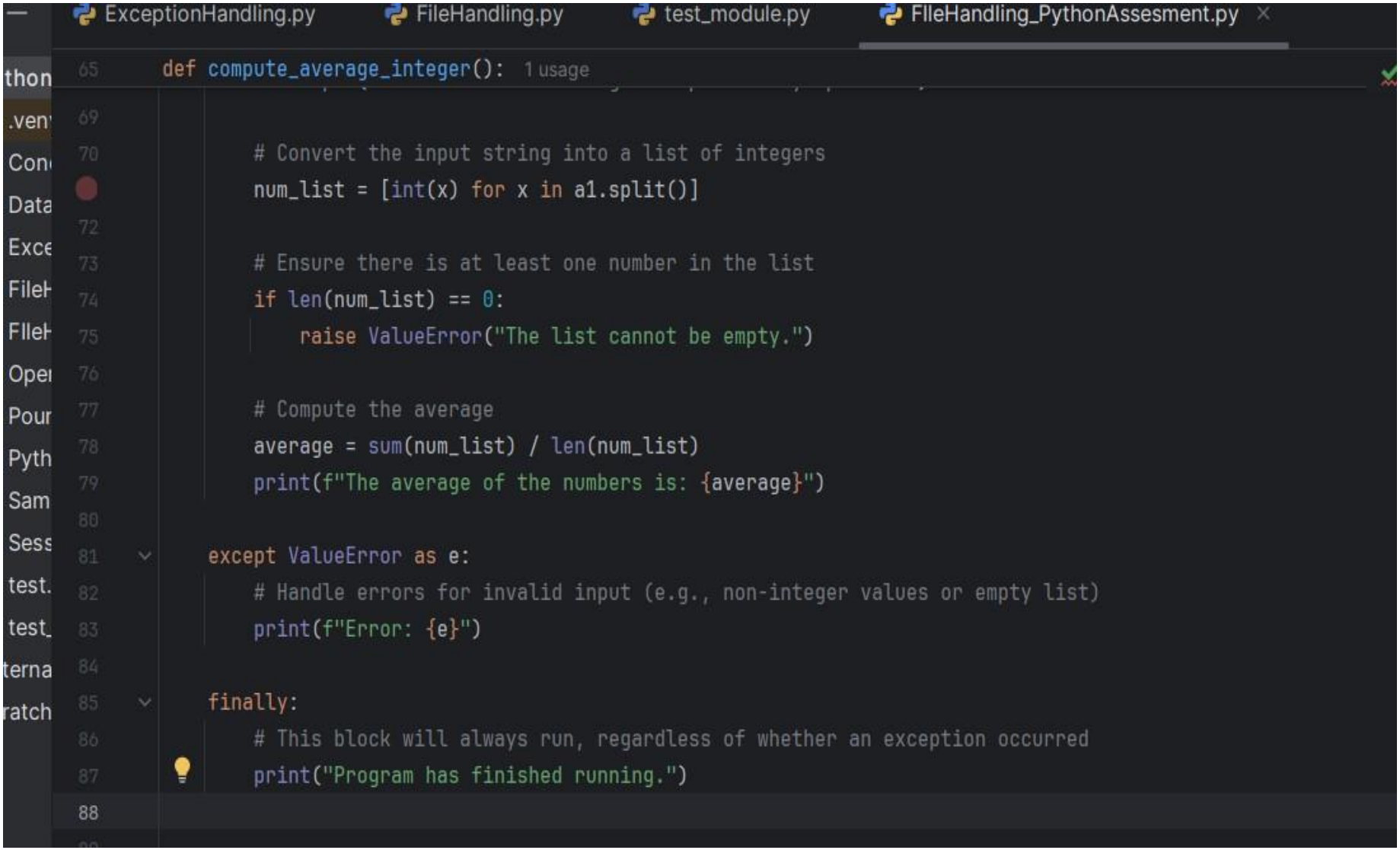
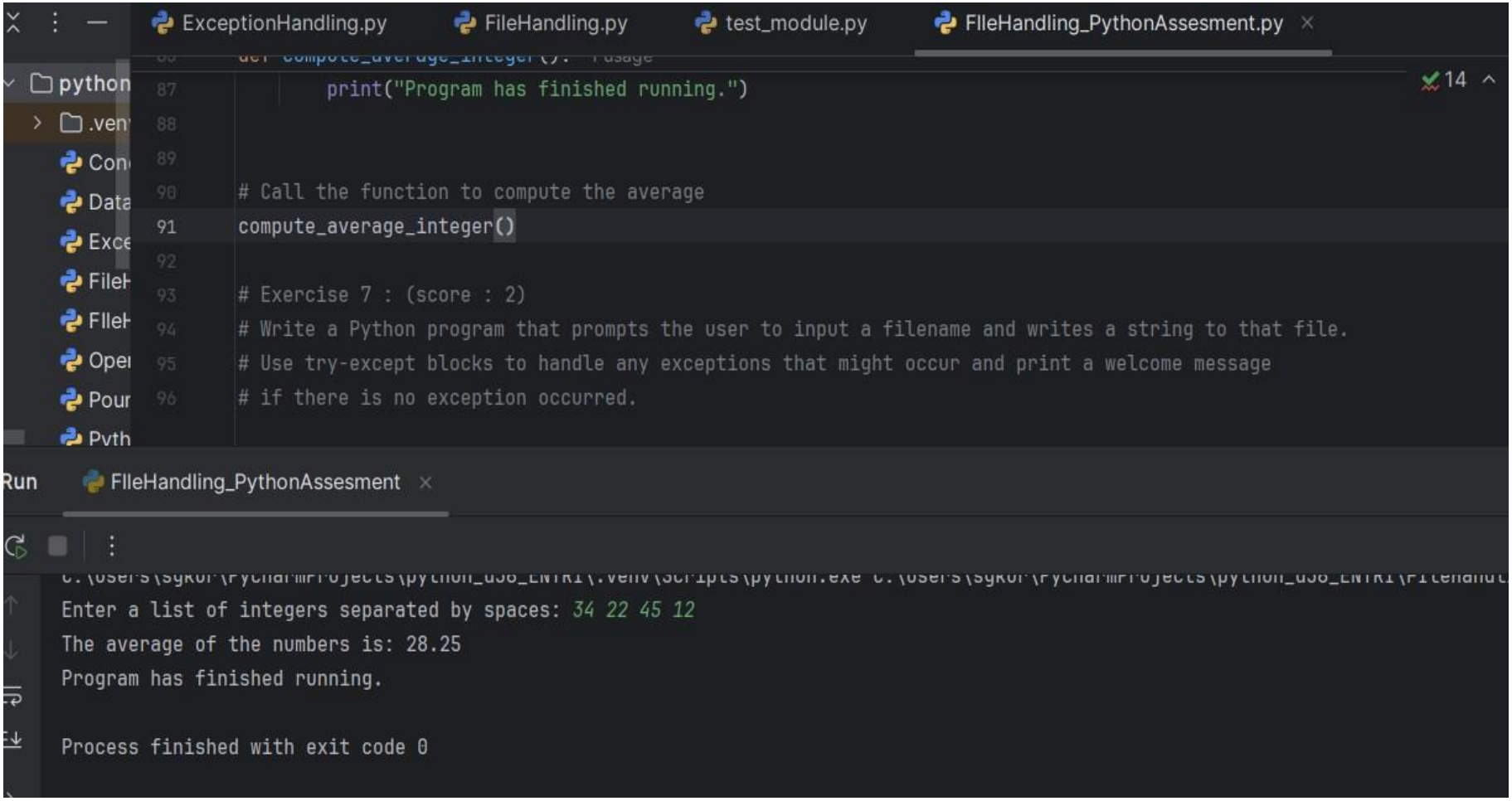
Pyth
print(f"Error: {e}")
# Call the function to check the numbers
check_negative_integers()
#
Exercise 6: (score : 2)
Write a Python program that prompts the user to input a list of integers and computes the
average of those integers. Use try-except blocks to handle any exceptions that might occur.use
the finally clause to print a message indicating that the program has finished running.
un
FlleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36
Enter a list of integers separated by spaces: 2 5 -7 88 4
Error: Negative number detected: -7
Process finished with exit code 0

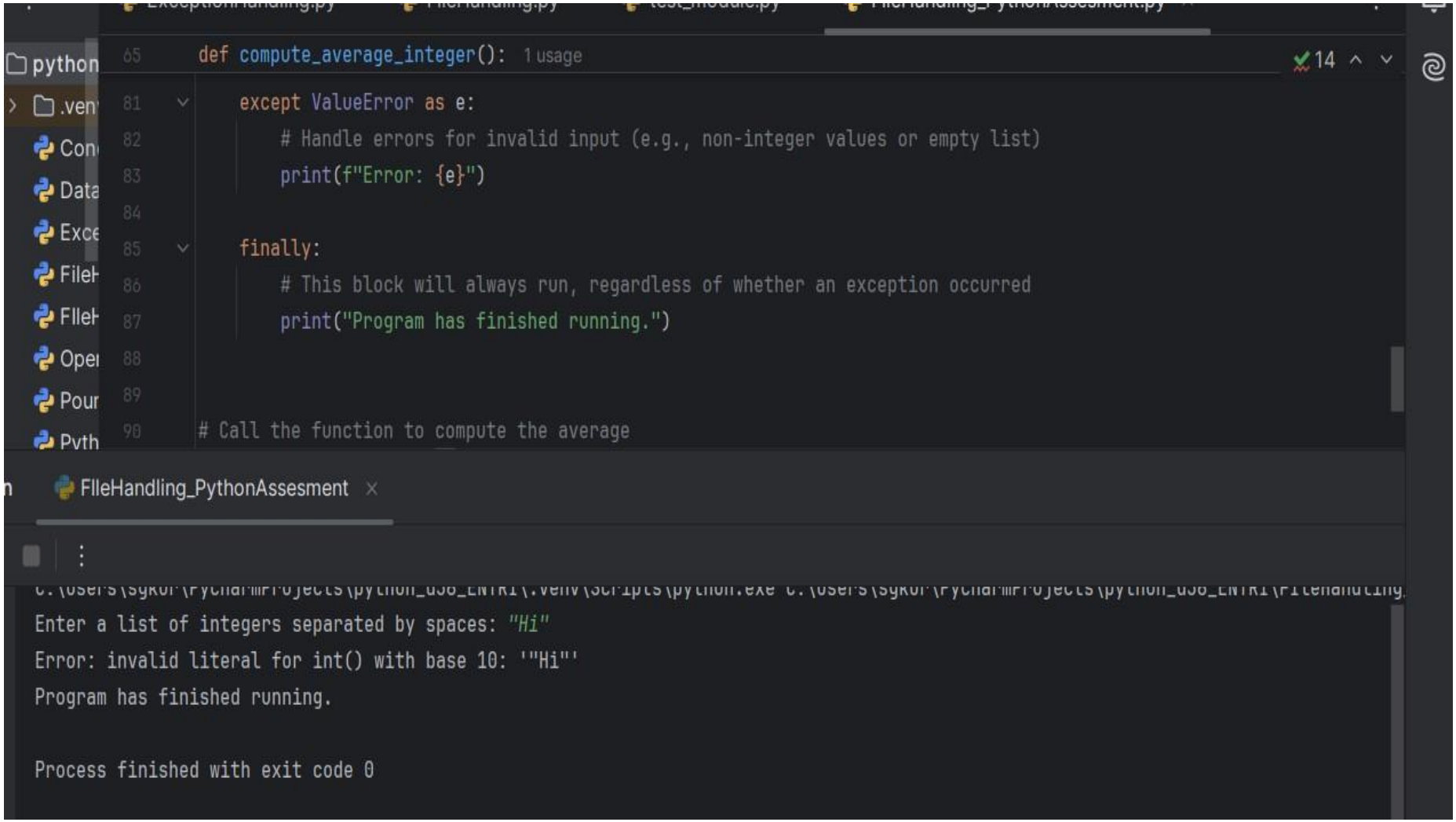
Q.6


ExceptionHandling.py
FileHandling.py
test_module.py
FIleHandling_PythonAssesment.py
def compute_average_integer(): 1 usage
# Convert the input string into a list of integers
num_list = [int(x) for x in a1.split()]
# Ensure there is at least one number in the list
if len(num_list) == 0:
raise ValueError("The list cannot be empty.")
# Compute the average
average = sum(num_list) / len(num_list)
print(f"The average of the numbers is: {average}")
except ValueError as e:
# Handle errors for invalid input (e.g., non-integer values or empty list)
print(f"Error: {e}")
finally:
# This block will always run, regardless of whether an exception occurred
print("Program has finished running.")

Q.6


ExceptionHandling.py
FileHandling.py
test_module.py
FlleHandling_PythonAssesment.py
print("Program has finished running.")
# Call the function to compute the average
compute_average_integer()
# Exercise 7 : (score : 2)
# Write a Python program that prompts the user to input a filename and writes a string to that file.
# Use try-except blocks to handle any exceptions that might occur and print a welcome message
# if there is no exception occurred.
Run
FlleHandling_PythonAssesment
Enter a list of integers separated by spaces: 34 22 45 12
The average of the numbers is: 28.25
Program has finished running.
Process finished with exit code 0

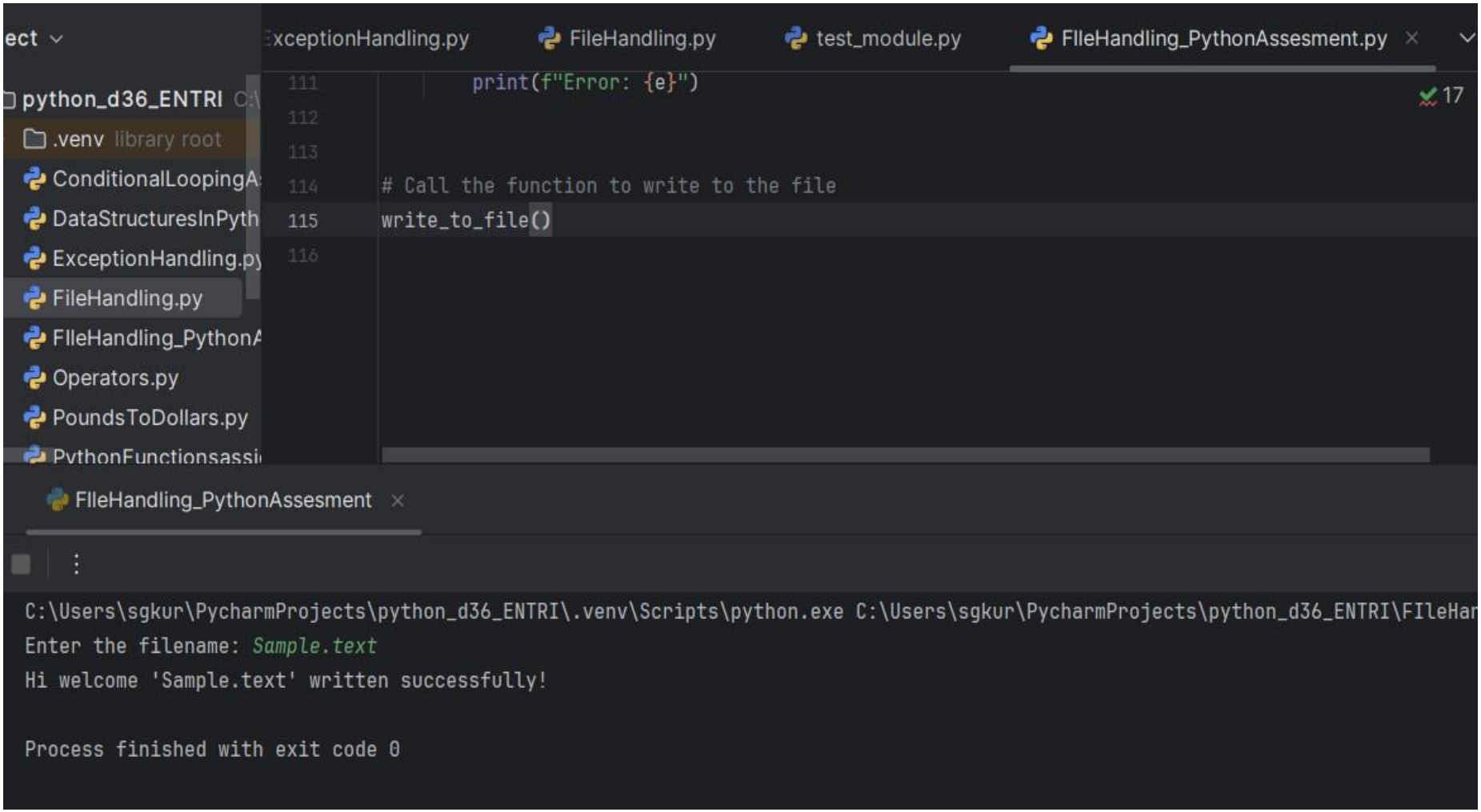
Q.6


def compute_average_integer(): 1 usage
except ValueError as e:
# Handle errors for invalid input (e.g., non-integer values or empty list)
print(f"Error: {e}")
finally:
# This block will always run, regardless of whether an exception occurred
print("Program has finished running.")
# Call the function to compute the average
FIleHandling_PythonAssesment
Enter a list of integers separated by spaces: "Hi"
Error: invalid literal for int() with base 10: '"Hi"'
Program has finished running.
Process finished with exit code 0

Q.7

```python
# Exercise 7 : (score : 2)
# Write a Python program that prompts the user to input a filename and writes a string to that file.
# Use try-except blocks to handle any exceptions that might occur and print a welcome message
# if there is no exception occurred.
def write_to_file():  1 usage
    try:
        # Prompt the user for the filename
        filename = input("Enter the filename: ")

        # Open the file in write mode and write a string to it
        with open("C:\\Users\\sgkur\\PycharmProjects\\python_d36_ENTRI\\Sample.txt", 'w') as file:
            file.write("This is a sample string written to the file.")

        # Print a welcome message if no exceptions occur
        print(f"Hi welcome '{filename}' written successfully!")

    except Exception as e:
        # Handle any exceptions that occur (e.g., file permission issues)
        print(f"Error: {e}")


# Call the function to write to the file
```

Q.7


ect
ExceptionHandling.py
FileHandling.py
test_module.py
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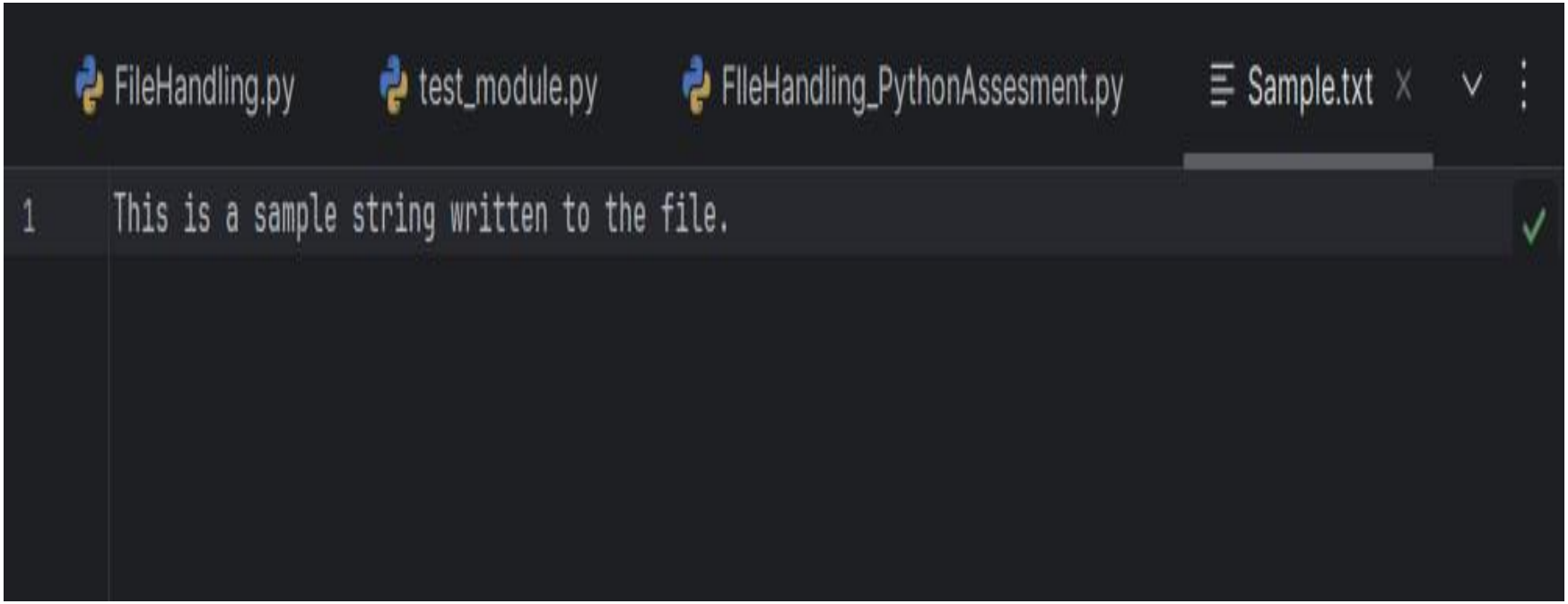
.venv library root
ConditionalLoopingA
DataStructuresInPyth
ExceptionHandling.py
FileHandling.py
FIleHandling_PythonA
Operators.py
PoundsToDollars.py
PythonFunctionsassi
print(f"Error: {e}")
17
# Call the function to write to the file
write_to_file()
FIleHandling_PythonAssesment
C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\.venv\Scripts\python.exe C:\Users\sgkur\PycharmProjects\python_d36_ENTRI\FIleHar
Enter the filename: Sample.text
Hi welcome 'Sample.text' written successfully!
Process finished with exit code 0

Q.7


Sales Territory.txt
Sales Territory.txt
Sales Territory.txt
Hello.txt
Sample.txt
New_File.txt
Sample.txt
File
Edit
View
This is a sample string written to the file.

Q.7


FileHandling.py
test_module.py
FIleHandling_PythonAssesment.py
Sample.txt
1
This is a sample string written to the file.